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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/743,271	12/23/2003	Helmar Van Santen	081468-0307331	1 4441	
909	7590 07/05/2006		EXAMINER		
PILLSBURY WINTHROP SHAW PITTMAN, LLP			NGUYEN, HUNG		
P.O. BOX 10500 MCLEAN, VA 22102		ART UNIT	PAPER NUMBER		
,			2851		
			DATE MAILED: 07/05/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)	
10/743,271	VAN SANTEN ET AL.	
Examiner	Art Unit	
Hung Henry V. Nguyen	2851	

	Examine	Artonit	İ
	Hung Henry V. Nguyen	2851	
The MAILING DATE of this communication appe	ears on the cover sheet with the c	correspondence add	ress
THE REPLY FILED <u>06 June 2006</u> FAILS TO PLACE THIS APF	PLICATION IN CONDITION FOR A	LLOWANCE.	
1. The reply was filed after a final rejection, but prior to or or this application, applicant must timely file one of the follow places the application in condition for allowance; (2) a Not a Request for Continued Examination (RCE) in compliantime periods:	n the same day as filing a Notice of wing replies: (1) an amendment, aff otice of Appeal (with appeal fee) in o ce with 37 CFR 1.114. The reply mo	Appeal. To avoid aba idavit, or other evider compliance with 37 C	nce, which FR 41.31; or (3)
a) The period for reply expires 3 months from the mailing date	-		
b) The period for reply expires on: (1) the mailing date of this A no event, however, will the statutory period for reply expire I	ater than SIX MONTHS from the mailing	g date of the final rejecti	on.
Examiner Note: If box 1 is checked, check either box (a) or TWO MONTHS OF THE FINAL REJECTION. See MPEP 7	06.07(f).		
Extensions of time may be obtained under 37 CFR 1.136(a). The date have been filed is the date for purposes of determining the period of exunder 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any reply received by the Office late may reduce any earned patent term adjustment. See 37 CFR 1.704(b) NOTICE OF APPEAL	stension and the corresponding amount shortened statutory period for reply origing than three months after the mailing da	of the fee. The appropri inally set in the final Offi	iate extension fee ce action; or (2) a
 The Notice of Appeal was filed on A brief in complising the Notice of Appeal (37 CFR 41.37(a)), or any external a Notice of Appeal has been filed, any reply must be filed. 	ension thereof (37 CFR 41.37(e)), to	avoid dismissal of th	
AMENDMENTS	within the time period set forth in s	77 CFR 41.57(a).	
3. The proposed amendment(s) filed after a final rejection,	but prior to the date of filing a brief.	will not be entered b	ecause
(a) They raise new issues that would require further co			
(b) ☐ They raise the issue of new matter (see NOTE below	ow);	•	
(c) They are not deemed to place the application in be appeal; and/or	tter form for appeal by materially re	ducing or simplifying	the issues for
(d) ☐ They present additional claims without canceling a	corresponding number of finally rej	ected claims.	
NOTE: see attached document. (See 37 CFR 1.1	16 and 41.33(a)).		
4. $oxedsymbol{\square}$ The amendments are not in compliance with 37 CFR 1.1			
5. $oxed{\boxtimes}$ Applicant's reply has overcome the following rejection(s)			
 Newly proposed or amended claim(s) would be a non-allowable claim(s). 	•	•	-
7. For purposes of appeal, the proposed amendment(s): a) how the new or amended claims would be rejected is pro The status of the claim(s) is (or will be) as follows:		ll be entered and an e	explanation of
Claim(s) allowed: <u>1,3-13 and 15-20</u> .			
Claim(s) objected to:			
Claim(s) rejected: <u>21-25, 27-36</u> . Claim(s) withdrawn from consideration:			
AFFIDAVIT OR OTHER EVIDENCE			
8. The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good an was not earlier presented. See 37 CFR 1.116(e).			
9. The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to showing a good and sufficient reasons why it is necessar	overcome all rejections under appea	al and/or appellant fai	ls to provide a
10. ☐ The affidavit or other evidence is entered. An explanation REQUEST FOR RECONSIDERATION/OTHER			
11. The request for reconsideration has been considered but	ut does NOT place the application in	n condition for allowar	nce because:
12. ☐ Note the attached Information Disclosure Statement(s).	(PTO/SB/08 or PTO-1449) Paper N	lo(s)	
13.		Mahan	\sim
		Hung Henry V Ngu	yen
		Drimon, Evaninas	

Hung Henry V Nguyen Primary Examiner Art Unit: 2851 Application/Control Number: 10/743,271

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Response to Applicant's Amendment

1. Applicant's arguments in conjunction with the applicant's amendment after final filed 6/6/06 have been carefully considered. Claim 30 has been amended and new claim 27 has been added.

With respect to claim 27, in light of applicant's remarks on page 1, third paragraph, the rejection of claim 27 under 35 U.S.C. 112 second paragraph is withdrawn.

Turning to the 35 U.S.C. 102(e) rejection of claims 21-22, 24, 30-31 and 33 under the reference of Mizutani et al, applicant's arguments are not found to be persuasive. In response to applicant's argument that "there is no indication in Mizutani et al that the liquid supply nozzle 4 is mechanically isolated from the projection optical system Pl. Mizutani et al is silent as to how the supply nozzle 4 is connected to the lithography apparatus. Clearly, the supply nozzle 4 can not be merely suspended in air-it must be connected to something. Mizutani et al fails to identify this connection and Applicants submit that supply nozzle may be connected to the projection optical system (or its frame) such that the inlet port is not mechanically isolated from the projection optical system"; the Examiner respectfully disagrees with the applicant since there are several problems with applicant's analysis. Firstly, there is no evidence whatsoever the nozzle 4 is connected to the projection optical system (or its frame) as guessed by applicants. As clearly illustrated from figure 1 of Mizutani et al, the supply nozzle 4 is connected to the liquid supply unit 1. Thus, Mizutani et al meets the claimed limitations because "the supply nozzle 4 is provided on a boundary of the space between the substrate and the projection optical system, not provided on the substrate table and mechanically isolated from the projection system". Secondly, as suggested by applicants, even if the nozzle is connected to the projection system (or

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its frame) in order to reduce unwanted vibration of an optical element in the projection system generated by the nozzle, one having ordinary skill in the art would employ (at least) a bellows (damper, an anti-vibration unit) between the nozzle and the projection optical system. This would be within the level of a skilled artisan.

Turning now to amended claim 30, the newly added limitation of "wherein the at least one immersion liquid outlet port is radially outwardly, <u>relative to an optical axis of the projection system</u>, of the at least one immersion liquid inlet port" would require further consideration and/or search.

As to the rejection of claims 25, 28-29, 32, 35-36, applicant is correct in pointing that the rejection is made under 35 U.S.C 103(a) as being obvious in view of Mizutani et al and Schuster et al (U.S.Pat. 6,781,668). The Examiner regrets and apologizes for this typographical error. Regarding the rejection of claims 23 and 27 under 35 U.S.C. 103(a) as being obvious in view of Mizutani et al and Lin. Taken as a whole, it remains the position of the Examiner that the combination of Mizutani et al and Schuster and the combination of Mizutani and Lin, have disclosed every feature claimed by applicant in the above mentioned claims.

Lastly, as to the Examiner's statement of reasons for the indication of allowable subject matter of claims 1, 3-13 and 15-20, the Applicant states that "portions of the Examiner's comments paraphrase claim features and/or combine features from separate claims and thus do not accurately represent the actual claim language". The Examiner has carefully reviewed the statement of reasons for the indication of allowable subject matter of these claims and the Examiner recognizes that the statement does truly reflect the claimed subject matters of these claims. The Examiner has no intention to narrow the scope of the claims. If the applicants do

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not agree with the Examiner, the applicants are requested to clearly point out the language in the statement that the applicants consider "not accurately represent the actual claim language" so that the Examiner can be aware of such language.

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung Henry V. Nguyen whose telephone number is 571-272-2124. The examiner can normally be reached on Monday-Friday (First Friday off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on 571-272-2258. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

hvn 6/22/06

HENRY HUNG NGUYEN
PRIMARY EXAMINER